

WHAT IS CLAIMED IS:

1. A storage control apparatus that receives a packet including data required to execute a predetermined command and that executes the command based on the data in the packet received, comprising:
  - 5 an attribute registering unit to register information about an attribute of packets that are receivable corresponding to a command;
  - an attribute acquiring unit that acquires information about an attribute of the packet received; and
  - a reception error handling unit that, upon occurrence of a
- 10 reception error that there is no information in the attribute registering unit corresponding to the information acquired by the attribute acquiring unit, executes a predetermined reception error handling routine according to a type of the reception error.
- 15 2. The storage control apparatus according to claim 1, wherein the information about the attribute of the packet includes information about a type of the packet, and
- the reception error handling unit abandons the packet received upon occurrence of a reception error that there is no information about
- 20 the type of the packet in the attribute registering unit corresponding to the information about the type of the packet acquired by the attribute acquiring unit.
3. The storage control apparatus according to claim 1, wherein
- 25 the information about the attribute of the packet includes

information about a length of the packet, and

the reception error handling unit abandons the packet received upon occurrence of a reception error that there is no information about the length of the packet in the attribute registering unit corresponding to the information about the length of the packet acquired by the attribute  
5 acquiring unit.

4. The storage control apparatus according to claim 1, wherein the information about the attribute of the packet includes  
10 information about a sequence of receiving the packet, and the reception error handling unit abandons the packet received upon occurrence of a reception error that there is no information about the sequence of receiving of the packet in the attribute registering unit corresponding to the information about the sequence of receiving of the  
15 packet acquired by the attribute acquiring unit.

5. The storage control apparatus according to claim 1, wherein the reception error handling unit executes a part of the reception error handling routine as a firmware process executed by a microcomputer.  
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6. A storage apparatus that receives a packet including data required to execute a predetermined command and that executes the command based on the data in the packet received, comprising:  
an attribute registering unit to register information about an  
25 attribute of packets that are receivable corresponding to a command;

an attribute acquiring unit that acquires information about an attribute of the packet received; and

a reception error handling unit that, upon occurrence of a reception error that there is no information in the attribute registering  
5 unit corresponding to the information acquired by the attribute acquiring unit, executes a predetermined reception error handling routine according to a type of the reception error.

7. The storage control apparatus according to claim 6, wherein  
10 the information about the attribute of the packet includes information about a type of the packet, and

the reception error handling unit abandons the packet received upon occurrence of a reception error that there is no information about the type of the packet in the attribute registering unit corresponding to  
15 the information about the type of the packet acquired by the attribute acquiring unit.

8. The storage control apparatus according to claim 6, wherein  
the information about the attribute of the packet includes  
20 information about a length of the packet, and

the reception error handling unit abandons the packet received upon occurrence of a reception error that there is no information about the length of the packet in the attribute registering unit corresponding to the information about the length of the packet acquired by the attribute  
25 acquiring unit.

9. The storage control apparatus according to claim 6, wherein  
the information about the attribute of the packet includes  
information about a sequence of receiving the packet, and  
the reception error handling unit abandons the packet received  
5 upon occurrence of a reception error that there is no information about  
the sequence of receiving of the packet in the attribute registering unit  
corresponding to the information about the sequence of receiving of the  
packet acquired by the attribute acquiring unit.

10 10. The storage control apparatus according to claim 6, wherein the  
reception error handling unit executes a part of the reception error  
handling routine as a firmware process executed by a microcomputer.

11. A method of receiving a packet including data required to  
15 execute a predetermined command and executing the command based  
on the data in the packet received, comprising:

registering information about an attribute of packets that are  
receivable corresponding to a command;

acquiring information about an attribute of the packet received;

20 and

executing, upon occurrence of a reception error that there is no  
information in the attribute registering unit corresponding to the  
information acquired by the attribute acquiring unit, a predetermined  
reception error handling routine according to a type of the reception  
25 error.

12. The method according to claim 11, wherein  
the information about the attribute of the packet includes  
information about a type of the packet, and  
the executing includes abandoning the packet received upon  
5 occurrence of a reception error that there is no information about the  
type of the packet in the attribute registering unit corresponding to the  
information about the type of the packet acquired by the attribute  
acquiring unit.

10 13. The method according to claim 11, wherein  
the information about the attribute of the packet includes  
information about a length of the packet, and  
the executing includes abandoning the packet received upon  
occurrence of a reception error that there is no information about the  
15 length of the packet in the attribute registering unit corresponding to the  
information about the length of the packet acquired by the attribute  
acquiring unit.

14. The method according to claim 11, wherein  
20 the information about the attribute of the packet includes  
information about a sequence of receiving the packet, and  
the executing includes abandoning the packet received upon  
occurrence of a reception error that there is no information about the  
sequence of receiving of the packet in the attribute registering unit  
25 corresponding to the information about the sequence of receiving of the

packet acquired by the attribute acquiring unit.

15. The method according to claim 11, wherein the executing  
includes executing a part of the reception error handling routine as a  
5 firmware process executed by a microcomputer.

16. A computer program that realizes on a computer receiving a  
packet including data required to execute a predetermined command  
and executing the command based on the data in the packet received,  
10 the computer program making the computer execute:

registering information about an attribute of packets that are  
receivable corresponding to a command;

acquiring information about an attribute of the packet received;  
and

15 executing, upon occurrence of a reception error that there is no  
information in the attribute registering unit corresponding to the  
information acquired by the attribute acquiring unit, a predetermined  
reception error handling routine according to a type of the reception  
error.

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17. The computer program according to claim 16, wherein  
the information about the attribute of the packet includes  
information about a type of the packet, and

the executing includes abandoning the packet received upon  
25 occurrence of a reception error that there is no information about the

type of the packet in the attribute registering unit corresponding to the information about the type of the packet acquired by the attribute acquiring unit.

5     18.     The computer program according to claim 16, wherein  
              the information about the attribute of the packet includes  
information about a length of the packet, and  
              the executing includes abandoning the packet received upon  
occurrence of a reception error that there is no information about the  
10    length of the packet in the attribute registering unit corresponding to the  
information about the length of the packet acquired by the attribute  
acquiring unit.

              19.     The computer program according to claim 16, wherein  
15            the information about the attribute of the packet includes  
information about a sequence of receiving the packet, and  
              the executing includes abandoning the packet received upon  
occurrence of a reception error that there is no information about the  
sequence of receiving of the packet in the attribute registering unit  
20    corresponding to the information about the sequence of receiving of the  
packet acquired by the attribute acquiring unit.

              20.     The computer program according to claim 16, wherein the  
executing includes executing a part of the reception error handling  
25    routine as a firmware process executed by a microcomputer.